

Information as of:

Estimated Construction & Total Project Cost Data at Schematic Design [ON OR AFTER JANUARY 1, 2014]

High Schools

August 2020

Board Meeting

The information and data contained in this spreadsheet, for construction projects starting January 2014, is based on the MSBA's review of construction cost estimates, contracts and other documentation provided by cities, towns, and regional school districts. This information and data is intended for informational purposes only. The data may have changed based on actual construction bids or contract amendments, for example, and the MSBA shall have no responsibility or duty to update any of the information contained in this spreadsheet. Please contact the Districts for the most current information. The MSBA hereby disclaims any and all liability and responsibility that may arise in connection with the information contained in this spreadsheet. This spreadsheet may include a preliminary review of scope exclusions but all costs identified are subject to review and audit by the MSBA and may not be eligible for reimbursement by the MSBA.

Date Board Approved	Oct-12	Oct-13	Jul-13	Jan-14	Jul-14	Jul-14	Jun-15	Jan-16	Jan-16
District	Greater Lowell	Winchester	Berkshire Hills	North Middlesex <sup>1</sup>	Holbrook	Plymouth	Pittsfield	Billerica	Minuteman Regional
School Name	Greater Lowell RTHS	Winchester High School	Monument Mountain Regional HS	Regional High School	Holbrook Jr./Sr. High School	Plymouth South High School	Taconic High School	Billerica Memorial HS	Minuteman Regional Vocational Technical HS
Construction Type	Repair	Add/Reno	Add/Reno	New	New	New	New	New	New
Enrollment	1,990	1,370	570	870	1,095	1,005	920	1,610	628
GSF	505,766	309,142	137,380	180,530	217,353	248,081	246,520	325,191	257,745
Assumed Start of Construction	Mar-14	Jun-14	Nov-14	May-15	Nov-15	Jun-15	Jan-16	Feb-17	Aug-17
OPM	Joslin, Lesser & Associates, Inc.	Skanska USA Building, Inc.	Strategic Building Solutions, LLC	Heery International, Inc.	SMMA	Ted Gentry Associates	Skanska	KV Associates, Inc.	Skanska
Designer	KBA Architects	Symmes Maini & McKee Associates	SMMA	Symmes Maini & McKee Associates	Flansburg Associates	Ai3 Architects LLC	Drummy Rosanne Anderson, Inc.	Perkins+Will	Kaestle Boos Associate, Inc.
Cost Estimator	Atlantic Construction & Management	AM Fogarty, Inc.	PM&C	A.M. Fogarty, Inc.	PM&C	PM&C	Gilbane	PM&C	PM&C

Division #	Description of Work	Total Cost								
A	Substructure	\$583,645	\$2,250,990	\$1,065,264	\$3,560,992	\$2,531,769	\$3,993,470	\$2,491,962	\$3,519,889	\$6,018,571
B	Shell	\$10,186,500	\$19,046,044	\$7,189,937	\$14,024,734	\$16,057,582	\$19,439,662	\$18,777,964	\$29,602,363	\$20,391,786
B10	Superstructure	\$703,420	\$3,689,083	\$1,238,330	\$5,055,274	\$6,504,027	\$8,662,654	\$8,465,685	\$12,929,882	\$8,674,815
B20	Exterior Enclosure	\$4,394,050	\$12,445,753	\$1,784,661	\$5,882,134	\$7,147,168	\$8,768,249	\$7,715,637	\$14,082,289	\$8,246,516
B2010	Exterior Walls	\$1,882,165	\$8,665,814	\$276,948	\$3,966,375	\$5,023,603	\$5,862,988	\$6,373,942	\$8,625,095	\$8,246,516
B2020	Exterior Windows	\$2,239,285	\$3,595,529	\$1,350,617	\$1,728,357	\$2,025,365	\$2,581,898	\$1,183,935	\$5,323,374	
B2030	Exterior Doors	\$272,600	\$184,410	\$157,096	\$187,402	\$98,200	\$323,363	\$157,760	\$133,820	
B30	Roofing	\$5,089,030	\$2,911,208	\$4,166,946	\$3,087,326	\$2,406,387	\$2,008,759	\$2,596,642	\$2,590,192	\$3,470,455
C	Interiors	\$4,530,640	\$13,429,636	\$5,063,669	\$8,987,130	\$10,410,725	\$12,961,512	\$12,416,341	\$16,793,857	\$13,748,466
D	Services	\$19,286,748	\$25,929,654	\$11,339,242	\$14,568,287	\$19,130,764	\$22,000,045	\$23,297,917	\$29,610,267	\$25,631,184
D10	Conveying	\$15,000	\$240,000	\$51,800	\$78,843	\$182,300	\$213,150	\$295,000	\$327,000	\$365,350
D20	Plumbing	\$1,600,685	\$3,869,317	\$1,490,841	\$1,923,161	\$3,017,750	\$3,097,714	\$3,085,466	\$4,310,240	\$3,556,828
D30	HVAC	\$8,830,788	\$13,068,172	\$5,076,014	\$6,819,124	\$8,365,590	\$7,993,730	\$9,000,522	\$11,597,500	\$11,305,292
D40	Fire Protection	\$2,286,604	\$1,453,858	\$601,605	\$768,616	\$814,450	\$1,069,800	\$1,305,931	\$1,622,980	\$1,238,678
D50	Electrical Utilities	\$6,553,671	\$7,298,307	\$4,118,982	\$4,978,543	\$6,750,674	\$9,625,651	\$9,610,998	\$11,752,547	\$9,165,036
E	Furnishings & Fixed Equipment	\$2,026,320	\$3,206,606	\$1,966,965	\$3,081,919	\$2,480,265	\$2,217,620	\$3,029,004	\$5,872,590	\$5,883,466
	Building Value Engineering									
	<b>Building Subtotal</b>	<b>\$36,613,853</b>	<b>\$63,862,930</b>	<b>\$26,625,077</b>	<b>\$44,223,062</b>	<b>\$50,611,105</b>	<b>\$60,612,309</b>	<b>\$60,013,188</b>	<b>\$85,398,966</b>	<b>\$71,673,473</b>
F	Special Construction & Demo	\$2,963,289	\$5,223,227	\$1,547,513	\$3,326,174	\$1,583,140	\$1,949,100	\$3,257,268	\$7,045,280	\$3,209,008
G	Other Site Construction	\$1,198,558	\$7,033,731	\$2,448,700	\$6,640,382	\$8,212,630	\$8,320,686	\$8,293,358	\$13,223,137	\$8,784,416
G10	Site Preparation	\$135,812	\$2,548,718	\$375,400	\$1,730,917	\$1,282,844	\$2,923,933	\$2,322,677	\$2,457,415	
G20	Site Improvements	\$603,340	\$3,368,554	\$1,085,800	\$2,702,201	\$4,258,749	\$4,559,260	\$3,258,432	\$7,501,210	\$3,622,404
G30	Mechanical Utilities	\$413,406	\$764,845	\$512,300	\$1,881,170	\$2,042,057	\$1,575,718	\$1,469,335	\$1,729,100	\$1,323,597
G40	Electrical Utilities	\$46,000	\$351,614	\$475,200	\$326,094	\$628,980	\$272,000	\$641,658	\$1,670,150	\$1,381,000
	Other Site Construction				\$43,798			\$50,000		
	<b>Subtotal</b>	<b>\$40,775,700</b>	<b>\$76,119,888</b>	<b>\$30,621,290</b>	<b>\$54,233,416</b>	<b>\$60,406,875</b>	<b>\$70,882,095</b>	<b>\$71,613,814</b>	<b>\$105,667,383</b>	<b>\$83,666,897</b>
Z	Mark-Ups	\$9,872,520	\$21,035,587	\$8,607,400	\$12,581,367	\$15,779,664	\$10,207,021	\$15,776,068	\$28,766,422	\$26,840,326
Z	Insurance	\$1,419,606	\$1,640,376		\$583,735	\$1,155,422	\$354,410	\$1,171,170	\$12,435,144	\$1,572,592
Z	Subcontractor Bond	\$300,000		\$682,000	\$554,510	\$637,939	\$715,787		\$1,139,006	\$1,139,006
Z	Design & Pricing Contingency	\$4,577,111	\$8,575,064	\$3,441,000	\$6,105,889	\$5,783,066	\$3,544,105	\$8,325,257	\$10,566,738	\$8,366,689
Z	General Conditions	\$2,242,664	\$3,510,000	\$3,788,800	\$4,140,000	\$3,840,000	\$3,898,515	\$5,783,556	\$9,004,650	\$9,004,650
Z	Overhead & Profit / GMP Fee	\$1,333,139	\$4,480,376	\$695,600	\$1,197,233	\$2,832,526	\$1,772,052	\$1,981,229	\$3,064,354	\$3,485,700
Z	GMP Contingency		\$2,829,771			\$2,168,650		\$1,787,069	\$2,700,186	\$3,271,689
	<b>Construction Subtotal</b>	<b>\$50,648,220</b>	<b>\$97,155,475</b>	<b>\$39,228,690</b>	<b>\$66,814,783</b>	<b>\$76,186,539</b>	<b>\$81,089,116</b>	<b>\$91,377,882</b>	<b>\$134,433,805</b>	<b>\$110,507,223</b>
	Project Scope Adjustments					\$3,648,701				
Z	Escalation to Construction Mid-Point	\$2,517,411	\$3,780,135	\$2,341,300	\$2,014,943		\$2,675,943	\$6,379,491	\$6,340,043	\$8,693,669
	<b>Total Construction Cost</b>	<b>\$53,165,631</b>	<b>\$100,935,610</b>	<b>\$41,569,990</b>	<b>\$68,829,726</b>	<b>\$79,835,240</b>	<b>\$83,765,059</b>	<b>\$97,757,373</b>	<b>\$140,773,848</b>	<b>\$119,200,892</b>
	<b>Cost per Square Foot</b>	<b>\$105</b>	<b>\$327</b>	<b>\$303</b>	<b>\$381</b>	<b>\$367</b>	<b>\$338</b>	<b>\$397</b>	<b>\$433</b>	<b>\$462</b>
	Bid Alternates		\$183,012			\$404,800	\$4,398,483	\$495,000		\$6,516,200
	CM Pre-Construction Services		\$500,000			\$600,000		\$250,000	\$250,000	\$420,000
	Construction Contingency	\$2,658,282	\$5,055,931	\$3,139,000	\$3,458,986	\$4,012,002	\$4,188,253	\$3,484,613	\$7,150,111	\$5,000,000
	Designer	\$5,685,298	\$10,848,500	\$4,950,000	\$7,893,000	\$9,135,000	\$7,706,049	\$10,230,985	\$15,085,710	\$11,393,800
	OPM & other Professional services	\$1,926,000	\$3,642,500	\$2,520,650	\$4,096,860	\$3,125,756	\$3,030,333	\$3,537,370	\$5,004,648	\$4,173,183
	FF&E/IT	\$1,000,000	\$4,932,000	\$1,468,000	\$3,132,000	\$3,942,000	\$3,741,000	\$4,098,050	\$5,071,500	\$1,507,200
	Legal Fees		\$100,000	\$15,000	\$21,000	\$120,000	\$150,000	\$30,000	\$100,000	\$0
	Other Soft Costs	\$275,000	\$3,220,000	\$505,000	\$961,608	\$990,000	\$270,000	\$250,000	\$1,250,000	\$2,035,396
	Owner's Contingency	\$600,000	\$505,593	\$1,500,000	\$691,797	\$802,400	\$550,823	\$1,161,538	\$1,311,472	\$1,192,009
	<b>Total Project Budget ***</b>	<b>\$65,310,211</b>	<b>\$129,923,146</b>	<b>\$55,667,640</b>	<b>\$89,084,977</b>	<b>\$102,967,198</b>	<b>\$107,800,000</b>	<b>\$121,294,929</b>	<b>\$175,997,289</b>	<b>\$151,438,680</b>
	Bid Alternates		\$183,012			\$404,800	\$4,398,483	\$495,000	\$0	\$6,516,200
	Ineligible Costs & Contingency			\$3,831,650	\$2,770,689	\$3,213,650	\$3,565,602	\$2,507,039	\$5,930,038	\$3,807,991
	Scope Exclusions	\$125,000	\$26,074,548		\$19,883,308	\$18,689,894	\$12,019,699	\$25,539,786	\$40,644,736	\$40,095,359
	<b>Basis for Total Facilities Grant</b>	<b>\$65,185,211</b>	<b>\$103,665,586</b>	<b>\$51,835,990</b>	<b>\$66,430,980</b>	<b>\$80,658,854</b>	<b>\$87,816,216</b>	<b>\$92,753,104</b>	<b>\$129,422,515</b>	<b>\$101,019,130</b>
	<b>Reimbursement Rate</b>	<b>76.84%</b>	<b>42.92%</b>	<b>48.52%</b>	<b>60.63%</b>	<b>69.12%</b>	<b>53.37%</b>	<b>80.00%</b>	<b>56.99%</b>	<b>44.75%</b>
	<b>Maximum Facilities Grant</b>	<b>\$50,088,316</b>	<b>\$44,493,270</b>	<b>\$25,150,823</b>	<b>\$40,210,027</b>	<b>\$55,751,400</b>	<b>\$46,867,514</b>	<b>\$74,202,483</b>	<b>\$73,757,891</b>	<b>\$45,206,061</b>

1 - North Middlesex Regional HS - The Maximum Facilities Grant reflects the recovery of \$67,076.

\*\*\* Total Project Budget Value includes the cost of Alternates.

Information as of:

August 2020

Board Meeting

Estimated Construction & Total Project Cost Data at Schematic Design [ON OR AFTER JANUARY 1, 2014]

High Schools

The information and data contained in this spreadsheet, for construction projects starting January 2014, is based on the MSBA's review of construction cost estimates, contracts and other documentation provided by cities, towns, and regional school districts. This information and data is intended for informational purposes only. The data may have changed based on actual construction bids or contract amendments, for example, and the MSBA shall have no responsibility or duty to update any of the information contained in this spreadsheet. Please contact the Districts for the most current information. The MSBA hereby disclaims any and all liability and responsibility that may arise in connection with the information contained in this spreadsheet. This spreadsheet may include a preliminary review of scope exclusions but all costs identified are subject to review and audit by the MSBA and may not be eligible for reimbursement by the MSBA.

Date Board Approved	May-16	Feb-17	Jun-17	Aug-17	Oct-17	Dec-17	Dec-17	Feb-18
District	Stoughton	Somerville	Saugus <sup>2</sup>	Cape Cod <sup>3</sup>	Middleborough <sup>4</sup>	Worcester <sup>5</sup>	Boston <sup>6</sup>	Attleboro <sup>7</sup>
School Name	Stoughton High School	Somerville High School	Saugus High School	Cape Cod Regional Technical HS	Middleborough HS	South High Community	Boston Arts Academy	Attleboro HS
Construction Type	New	New	New	New	New	New	New	New
Enrollment	1,065	1,590	1,360	650	720	1,420	500	1,725
GSF	214,600	369,496	269,070	220,880	166,650	359,994	153,476	476,425
Assumed Start of Construction	Jul-17	Jan-18	Feb-18	Dec-20	Dec-17	Oct-18	Sep-18	May-19
OPM	Compass Project Management	PMA	PMA	Colliers International	Compass Project Management, Inc.	HEERY	PMA Construction Services	Skanska
Designer	Drumme Rosanne Anderson, Inc.	SMMA	HMFH	Drumme Rosane Anderson, Inc.	Drumme Rosane Anderson, Inc.	Lamoureux Pagano & Associates, Inc.	Perkins Eastman/DPC	Kaestle Boos Associates
Cost Estimator	PM&C	PM&C	PM&C	Rider Levett Bucknall	Miyakoda Consulting	A.M. Fogarty & Assoc., Inc.	PM&C	PM&C

Division #	Description of Work	Total Cost							
A	Substructure	\$2,960,617	\$6,035,997	\$4,691,092	\$5,278,100	\$4,198,828	\$7,779,638	\$5,999,651	\$7,491,254
B	Shell	\$18,749,972	\$35,855,220	\$23,089,994	\$20,993,600	\$14,745,626	\$31,355,727	\$21,370,653	\$42,865,549
B10	Superstructure	\$7,774,475	\$12,519,992	\$10,938,078	\$7,838,500	\$6,146,235	\$13,537,973	\$9,050,697	\$19,192,257
B20	Exterior Enclosure	\$8,312,029	\$17,722,553	\$9,414,509	\$10,281,100	\$6,521,892	\$14,292,278	\$10,492,688	\$17,912,962
B2010	Exterior Walls	\$5,952,208	\$12,835,308	\$5,639,966	\$5,092,100	\$4,507,560	\$9,937,200	\$5,325,295	\$10,363,543
B2020	Exterior Windows	\$2,245,709	\$4,681,245	\$3,632,103	\$4,863,200	\$1,850,400	\$4,168,568	\$5,048,704	\$7,258,819
B2030	Exterior Doors	\$114,112	\$206,000	\$142,440	\$325,800	\$163,932	\$186,510	\$118,689	\$290,600
B30	Roofing	\$2,663,468	\$5,612,675	\$2,737,407	\$2,874,000	\$2,077,499	\$3,525,476	\$1,827,268	\$5,760,330
C	Interiors	\$14,700,692	\$21,475,775	\$18,632,387	\$13,308,500	\$10,815,632	\$22,311,169	\$13,817,948	\$25,504,031
D	Services	\$19,574,104	\$43,459,701	\$26,094,271	\$22,861,600	\$16,602,130	\$36,897,131	\$19,195,122	\$50,329,674
D10	Conveying	\$405,000	\$740,000	\$350,000	\$310,525	\$377,074	\$626,800	\$320,000	\$320,000
D20	Plumbing	\$2,727,760	\$5,971,978	\$3,551,465	\$3,309,000	\$2,055,770	\$4,923,262	\$2,794,847	\$6,729,300
D30	HVAC	\$8,141,729	\$18,949,221	\$11,402,776	\$9,562,500	\$6,365,693	\$14,007,717	\$8,064,262	\$19,959,264
D40	Fire Protection	\$1,021,835	\$2,755,200	\$987,025	\$1,088,100	\$992,625	\$1,529,975	\$895,038	\$2,027,300
D50	Electrical Utilities	\$7,277,780	\$15,043,302	\$9,803,005	\$8,677,000	\$6,877,517	\$16,059,103	\$6,814,175	\$21,293,810
E	Furnishings & Fixed Equipment	\$2,525,388	\$4,739,258	\$4,613,668	\$2,697,200	\$4,179,673		\$4,065,020	\$8,792,157
	Building Value Engineering								
	<b>Building Subtotal</b>	<b>\$58,510,773</b>	<b>\$111,565,951</b>	<b>\$77,121,412</b>	<b>\$65,139,000</b>	<b>\$50,541,889</b>	<b>\$105,012,370</b>	<b>\$64,448,394</b>	<b>\$134,982,665</b>
F	Special Construction & Demo	\$3,015,750	\$10,536,145	\$5,160,025	\$2,513,900	\$2,969,000	\$4,298,200	\$2,554,140	\$7,856,000
G	Other Site Construction	\$8,783,777	\$21,944,804	\$13,337,293	\$9,237,900	\$11,160,446	\$20,575,764	\$1,379,290	\$15,707,685
G10	Site Preparation	\$2,071,146	\$6,434,250	\$1,537,045	\$2,043,000	\$1,779,286	\$6,911,203	\$295,958	\$2,861,393
G20	Site Improvements	\$4,674,490	\$12,818,914	\$8,984,703	\$4,512,500	\$6,580,306	\$8,917,481	\$608,502	\$12,846,292
G30	Mechanical Utilities	\$908,445	\$1,856,668	\$1,933,225	\$2,356,100	\$1,881,104	\$3,141,045	\$302,080	\$0
G40	Electrical Utilities	\$1,129,696	\$834,972	\$882,320	\$826,300	\$919,750	\$1,606,035	\$172,750	\$0
	Other Site Construction		\$0		\$0	\$0	\$0	\$0	\$0
	<b>Subtotal</b>	<b>\$70,310,300</b>	<b>\$144,046,900</b>	<b>\$95,618,730</b>	<b>\$76,890,800</b>	<b>\$64,671,335</b>	<b>\$129,886,334</b>	<b>\$68,381,824</b>	<b>\$158,546,350</b>
Z	Mark-Ups	\$21,286,127	\$38,483,421	\$27,285,689	\$21,125,900	\$15,090,574	\$33,496,327	\$22,466,346	\$46,940,391
Z	Insurance	\$988,762	\$2,373,693	\$2,650,551	\$1,473,400	\$763,536	\$2,246,382	\$1,168,050	\$2,653,742
Z	Subcontractor Bond	\$1,074,742	\$3,484,770	\$842,000	\$501,261	\$1,402,468	\$1,402,468	\$801,038	\$2,369,412
Z	Design & Pricing Contingency	\$7,304,276	\$11,567,703	\$10,039,967	\$8,910,600	\$6,170,233	\$11,689,770	\$6,838,182	\$15,631,941
Z	General Conditions	\$7,619,380	\$14,288,470	\$5,760,000	\$4,613,400	\$5,326,993	\$9,694,298	\$8,655,546	\$8,640,000
Z	Overhead & Profit / GMP Fee	\$2,579,380	\$3,645,505	\$5,521,982	\$5,286,500	\$2,328,551	\$4,216,126	\$2,274,332	\$12,432,589
Z	GMP Contingency	\$1,719,587	\$3,123,280	\$3,313,189	\$0	\$0	\$4,247,283	\$2,729,198	\$5,212,707
	<b>Construction Subtotal</b>	<b>\$91,596,427</b>	<b>\$182,530,321</b>	<b>\$122,904,419</b>	<b>\$98,016,700</b>	<b>\$79,761,909</b>	<b>\$163,382,661</b>	<b>\$90,848,170</b>	<b>\$205,486,741</b>
	Project Scope Adjustments								
Z	Escalation to Construction Mid-Point	\$5,632,303	\$16,521,389	\$4,780,937	\$6,207,100	\$3,007,989	\$9,478,520	\$5,128,637	\$17,601,571
	<b>Total Construction Cost</b>	<b>\$97,228,730</b>	<b>\$199,051,710</b>	<b>\$127,685,356</b>	<b>\$104,223,800</b>	<b>\$82,769,898</b>	<b>\$172,861,181</b>	<b>\$95,976,807</b>	<b>\$223,088,312</b>
	<b>Cost per Square Foot</b>	<b>\$453</b>	<b>\$539</b>	<b>\$475</b>	<b>\$472</b>	<b>\$497</b>	<b>\$480</b>	<b>\$625</b>	<b>\$468</b>
	Bid Alternates	\$3,732,461	\$0	\$0	\$0	\$812,500	\$0	\$0	\$0
	CM Pre-Construction Services	\$150,000	\$696,198	\$400,000	\$0	\$0	\$250,000	\$500,000	\$350,000
	Construction Contingency	\$4,038,448	\$12,764,470	\$7,046,121	\$3,126,700	\$4,138,495	\$8,643,059	\$6,718,376	\$2,230,883
	Designer	\$10,551,120	\$22,805,171	\$13,708,536	\$11,050,549	\$9,202,200	\$15,157,794	\$11,723,293	\$20,078,000
	OPM & other Professional services	\$3,629,642	\$10,096,956	\$5,286,306	\$3,737,832	\$3,059,119	\$4,467,802	\$3,914,122	\$7,710,985
	FF&E/IT	\$2,756,000	\$5,096,000	\$4,896,000	\$3,306,500	\$2,543,040	\$5,680,000	\$2,200,000	\$4,140,000
	Legal Fees	\$20,000	\$10,000	\$25,000	\$0	\$20,000	\$50,000	\$100,000	\$0
	Other Soft Costs	\$462,000	\$3,790,000	\$705,000	\$743,800	\$516,000	\$730,000	\$2,855,000	\$1,150,000
	Owner's Contingency	\$972,287	\$1,672,199	\$968,234	\$1,873,700	\$413,849	\$2,131,404	\$767,814	\$1,170,000
	<b>Total Project Budget ***</b>	<b>\$123,540,688</b>	<b>\$255,982,704</b>	<b>\$160,720,553</b>	<b>\$128,062,881</b>	<b>\$103,475,101</b>	<b>\$209,971,240</b>	<b>\$124,755,412</b>	<b>\$259,918,180</b>
	Bid Alternates		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Ineligible Costs & Contingency	\$3,066,161	\$8,783,436	\$7,509,936	\$2,158,241	\$3,315,374	\$6,914,447	\$5,758,608	\$1,215,489
	Scope Exclusions	\$34,324,555	\$82,551,497	\$39,159,674	\$32,207,304	\$29,504,859	\$58,592,691	\$49,491,816	\$68,232,148
	<b>Basis for Total Facilities Grant</b>	<b>\$86,149,972</b>	<b>\$164,647,771</b>	<b>\$114,050,943</b>	<b>\$93,697,336</b>	<b>\$70,654,868</b>	<b>\$144,464,102</b>	<b>\$69,504,988</b>	<b>\$190,470,543</b>
	<b>Reimbursement Rate</b>	<b>60.66%</b>	<b>75.29%</b>	<b>57.72%</b>	<b>45.45%</b>	<b>61.29%</b>	<b>80.00%</b>	<b>70.36%</b>	<b>66.65%</b>
	<b>Maximum Facilities Grant</b>	<b>\$52,258,573</b>	<b>\$123,963,307</b>	<b>\$65,830,204</b>	<b>\$42,585,439</b>	<b>\$43,304,369</b>	<b>\$115,571,282</b>	<b>\$48,903,710</b>	<b>\$126,948,617</b>

2 - Saugus High School - The Maximum Facilities Grant reflects the recovery of \$1,740,669.  
 3 - Cape Cod RTHS- The Maximum Facilities Grant reflects the recovery of \$73,779.  
 4 - Middleborough High School - The Maximum Facilities Grant reflects the recovery of \$4,578.  
 5 - Worcester - Max. Facilities Grant reflects the recovery of \$13,593.  
 6 - Boston - Max. Facilities Grant reflects the recovery of \$13,090.

7 - Attleboro HS - The Maximum Facilities Grant reflects the recovery of \$1,215,489.  
 \*\*\* Total Project Budget Value includes the cost of Alternates.

Information as of:

Estimated Construction & Total Project Cost Data at Schematic Design [ON OR AFTER JANUARY 1, 2014]

High Schools

August 2020

Board Meeting

The information and data contained in this spreadsheet, for construction projects starting January 2014, is based on the MSBA's review of construction cost estimates, contracts and other documentation provided by cities, towns, and regional school districts. This information and data is intended for informational purposes only. The data may have changed based on actual construction bids or contract amendments, for example, and the MSBA shall have no responsibility or duty to update any of the information contained in this spreadsheet. Please contact the Districts for the most current information. The MSBA hereby disclaims any and all liability and responsibility that may arise in connection with the information contained in this spreadsheet. This spreadsheet may include a preliminary review of scope exclusions but all costs identified are subject to review and audit by the MSBA and may not be eligible for reimbursement by the MSBA.

Date Board Approved	Feb-18	Jun-18	Aug-18	Apr-19	Apr-19	Apr-19	Oct-19	Feb-20	Feb-20
District	Fall River <sup>8</sup>	Bristol County	Belmont <sup>9</sup>	Arlington <sup>10</sup>	Central Berkshire <sup>11</sup>	Lowell <sup>12</sup>	Sharon <sup>13</sup>	Nauset <sup>14</sup>	Waltham <sup>15</sup>
School Name	BMC Durfee HS	Bristol County Agr. HS	Belmont HS	Arlington HS	Wahconah Regional HS	Lowell HS	Sharon HS	Nauset Regional HS	Waltham HS
Construction Type	New	Add/Reno	Add/Reno	New	New	Add/Reno	New	Add/Reno	New
Enrollment	2,570	640	2,215	1,755	460	3,520	1,250	905	1,830
GSF	501,330	196,151	445,100	408,590	122,760	622,777	240,204	214,250	414,854
Assumed Start of Construction	Oct-18	Dec-19	Jun-19	Jul-20	Mar-20	Jul-21	Dec-20		
OPM	Leftfield	Colliers International	Daedalus Projects, Inc.	Skanska	Skanska	Skanska	PMA	CHA Consulting	Leftfield
Designer	Ai3	HMFH	Perkins + Will	HMFH	Drummey Rosane Anderson	Perkins Eastman	Tappe Associates	Flansburgh Associates	Symmes Maini & Mckee Associates
Cost Estimator	PM&C	PM&C	PM&C	PM&C	Ellana	PM&C	PM&C	PM&C	PM&C

Division #	Description of Work	Total Cost								
A	Substructure	\$10,040,225	\$2,717,300	\$12,811,842	\$13,474,721	\$2,187,846	\$8,821,761	\$5,558,180	\$1,914,674	\$13,575,890
B	Shell	\$40,325,500	\$17,646,800	\$45,255,237	\$47,397,378	\$13,238,981	\$43,205,592	\$24,653,902	\$19,423,654	\$46,763,979
B10	Superstructure	\$15,066,451	\$4,976,500	\$19,448,977	\$21,791,712	\$4,921,782	\$16,763,727	\$10,467,052	\$5,548,289	\$16,961,758
B20	Exterior Enclosure	\$20,698,812	\$9,307,500	\$22,017,933	\$21,017,633	\$6,567,161	\$21,755,675	\$9,850,484	\$11,998,628	\$24,924,453
B2010	Exterior Walls	\$6,100,000	\$14,962,904	\$13,176,119	\$14,962,904	\$6,567,161	\$10,053,749	\$6,443,745	\$0	\$16,444,485
B2020	Exterior Windows	\$0	\$2,761,000	\$6,851,259	\$7,543,582	\$0	\$11,262,654	\$3,205,499	\$0	\$8,194,385
B2030	Exterior Doors	\$0	\$446,500	\$203,770	\$297,932	\$0	\$439,272	\$201,240	\$0	\$285,583
B30	Roofing	\$4,560,237	\$3,362,800	\$3,788,327	\$4,588,033	\$1,750,038	\$4,686,190	\$4,336,366	\$1,876,737	\$4,877,768
C	Interiors	\$31,331,576	\$9,130,700	\$30,971,091	\$30,023,786	\$8,304,518	\$38,191,310	\$18,171,110	\$14,968,687	\$34,596,365
D	Services	\$49,815,273	\$19,421,500	\$53,904,660	\$49,299,133	\$14,341,661	\$67,085,379	\$26,691,340	\$27,366,156	\$51,359,205
D10	Conveying	\$394,300	\$814,600	\$407,000	\$615,000	\$130,000	\$1,305,000	\$246,200	\$430,900	\$422,675
D20	Plumbing	\$6,886,573	\$2,440,500	\$6,636,640	\$6,656,440	\$1,781,270	\$9,392,145	\$4,309,842	\$3,803,718	\$7,612,924
D30	HVAC	\$19,130,818	\$8,420,500	\$25,050,557	\$25,607,633	\$5,806,998	\$31,917,803	\$11,343,145	\$11,972,794	\$24,449,711
D40	Fire Protection	\$2,193,247	\$825,700	\$2,008,225	\$2,042,950	\$597,485	\$3,255,044	\$1,240,344	\$1,404,688	\$2,442,470
D50	Electrical Utilities	\$21,210,335	\$6,920,200	\$19,802,238	\$14,377,110	\$6,025,908	\$21,215,387	\$9,551,809	\$9,754,056	\$16,431,425
E	Furnishings & Fixed Equipment	\$7,241,448	\$2,316,100	\$8,328,615	\$5,844,282	\$2,378,322	\$10,307,430	\$4,666,686	\$4,571,634	\$6,573,749
	Building Value Engineering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Building Subtotal</b>	<b>\$138,754,022</b>	<b>\$51,232,400</b>	<b>\$151,271,445</b>	<b>\$146,039,300</b>	<b>\$40,451,328</b>	<b>\$167,611,472</b>	<b>\$79,741,218</b>	<b>\$68,244,805</b>	<b>\$152,869,188</b>
F	Special Construction & Demo	\$7,445,625	\$2,008,200	\$9,936,375	\$7,414,100	\$1,150,000	\$20,673,185	\$2,962,560	\$3,373,342	\$1,021,610
G	Other Site Construction	\$17,080,054	\$8,426,700	\$14,350,958	\$18,625,642	\$4,759,272	\$7,003,247	\$11,471,383	\$8,676,159	\$32,929,683
G10	Site Preparation	\$3,116,961	\$1,095,400	\$1,991,873	\$5,704,532	\$1,387,025	\$5,703,100	\$2,012,996	\$8,676,159	\$32,783,529
G20	Site Improvements	\$8,783,373	\$4,446,300	\$9,290,810	\$8,712,200	\$2,242,366	\$3,726,267	\$7,174,047	\$0	\$138,154
G30	Mechanical Utilities	\$4,346,370	\$1,509,300	\$1,455,400	\$1,548,710	\$904,977	\$601,120	\$1,619,840	\$0	\$8,000
G40	Electrical Utilities	\$833,350	\$1,375,700	\$1,612,875	\$2,660,200	\$224,904	\$1,142,760	\$664,500	\$0	\$0
	Other Site Construction	\$0	\$264,700	\$0	\$0	\$0	\$1,268,597	\$185,000	\$31,353,309	\$0
	<b>Subtotal</b>	<b>\$163,279,701</b>	<b>\$61,932,000</b>	<b>\$175,558,778</b>	<b>\$172,079,042</b>	<b>\$46,360,600</b>	<b>\$195,287,904</b>	<b>\$95,443,758</b>	<b>\$80,479,306</b>	<b>\$218,173,790</b>
Z	Mark-Ups	\$41,847,362	\$18,468,600	\$49,815,631	\$47,720,671	\$10,926,931	\$59,558,263	\$26,530,645	\$20,365,852	\$63,250,000
Z	Insurance	\$4,019,538	\$1,071,300	\$3,910,468	\$2,214,657	\$560,366	\$4,023,086	\$1,958,506	\$1,264,248	\$3,500,000
Z	Subcontractor Bond	\$761,200	\$0	\$1,509,994	\$840,549	\$0	\$979,253	\$939,998	\$2,350,000	\$0
Z	Design & Pricing Contingency	\$16,327,970	\$6,356,300	\$14,946,558	\$13,766,323	\$3,255,742	\$18,351,399	\$9,544,376	\$8,047,931	\$21,500,000
Z	General Conditions	\$0	\$6,851,200	\$22,471,465	\$18,493,299	\$3,674,337	\$23,698,563	\$9,152,235	\$7,809,583	\$21,500,000
Z	Overhead & Profit / GMP Fee	\$18,695,525	\$2,030,200	\$4,451,569	\$5,029,885	\$1,351,778	\$6,129,643	\$2,720,157	\$2,304,092	\$5,900,000
Z	GMP Contingency	\$2,804,329	\$1,398,400	\$4,035,571	\$6,706,513	\$1,244,159	\$7,355,572	\$2,176,118	\$8,500,000	\$0
	<b>Construction Subtotal</b>	<b>\$205,127,063</b>	<b>\$80,400,600</b>	<b>\$225,374,409</b>	<b>\$219,799,713</b>	<b>\$57,287,531</b>	<b>\$254,846,167</b>	<b>\$121,974,403</b>	<b>\$100,845,158</b>	<b>\$281,423,790</b>
	Project Scope Adjustments	\$5,364,960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Z	Escalation to Construction Mid-Point	\$7,347,587	\$3,553,300	\$11,273,198	\$15,487,114	\$2,297,501	\$15,598,689	\$3,817,750	\$3,863,007	\$17,500,000
	<b>Total Construction Cost</b>	<b>\$217,839,610</b>	<b>\$83,953,900</b>	<b>\$236,647,607</b>	<b>\$235,286,827</b>	<b>\$59,585,032</b>	<b>\$270,444,856</b>	<b>\$125,792,153</b>	<b>\$104,708,165</b>	<b>\$298,923,790</b>
	<b>Cost per Square Foot</b>	<b>\$435</b>	<b>\$428</b>	<b>\$532</b>	<b>\$576</b>	<b>\$485</b>	<b>\$434</b>	<b>\$524</b>	<b>\$489</b>	<b>\$721</b>
	Bid Alternates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	CM Pre-Construction Services	\$270,000	\$100,000	\$446,582	\$500,000	\$200,000	\$800,000	\$450,000	\$0	\$600,000
	Construction Contingency	\$6,321,740	\$2,520,000	\$14,200,000	\$7,075,741	\$2,103,058	\$18,930,780	\$6,319,608	\$5,200,000	\$14,946,190
	Designer	\$22,095,355	\$8,803,000	\$22,731,000	\$25,010,919	\$6,120,000	\$28,656,356	\$13,620,320	\$11,370,000	\$35,590,189
	OPM & other Professional services	\$7,485,500	\$3,309,430	\$7,746,000	\$7,837,328	\$2,095,000	\$9,488,726	\$5,022,725	\$3,725,000	\$10,053,348
	FF&E/IT	\$6,168,000	\$3,298,090	\$7,088,000	\$8,073,000	\$1,497,000	\$10,934,775	\$4,500,000	\$2,805,500	\$9,774,632
	Legal Fees	\$20,000	\$20,000	\$100,000	\$100,000	\$20,000	\$0	\$25,000	\$15,000	\$0
	Other Soft Costs	\$1,150,000	\$485,580	\$4,200,000	\$4,198,198	\$400,000	\$2,090,912	\$805,000	\$3,552,000	\$1,690,000
	Owner's Contingency	\$2,143,920	\$1,260,000	\$2,000,000	\$2,769,807	\$701,019	\$2,052,815	\$6,465,194	\$450,000	\$2,989,238
	<b>Total Project Budget ***</b>	<b>\$263,494,125</b>	<b>\$103,750,000</b>	<b>\$295,159,189</b>	<b>\$290,851,820</b>	<b>\$72,721,109</b>	<b>\$343,399,220</b>	<b>\$163,000,000</b>	<b>\$131,825,665</b>	<b>\$374,567,387</b>
	Bid Alternates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Ineligible Costs & Contingency	\$2,636,613	\$840,922	\$9,467,048	\$4,722,873	\$1,507,208	\$13,521,883	\$5,061,686	\$3,105,837	\$11,956,952
	Scope Exclusions	\$47,832,759	\$18,647,856	\$87,237,872	\$113,056,080	\$18,533,959	\$59,875,030	\$46,568,450	\$43,297,114	\$176,472,093
	<b>Basis for Total Facilities Grant</b>	<b>\$213,024,753</b>	<b>\$84,261,222</b>	<b>\$198,454,269</b>	<b>\$173,072,867</b>	<b>\$52,679,942</b>	<b>\$270,002,307</b>	<b>\$111,369,864</b>	<b>\$85,422,714</b>	<b>\$186,138,342</b>
	<b>Reimbursement Rate</b>	<b>80.00%</b>	<b>63.24%</b>	<b>40.66%</b>	<b>49.72%</b>	<b>59.44%</b>	<b>80.00%</b>	<b>48.95%</b>	<b>43.39%</b>	<b>65.71%</b>
	<b>Maximum Facilities Grant</b>	<b>\$170,419,802</b>	<b>\$53,286,797</b>	<b>\$80,691,505</b>	<b>\$86,051,829</b>	<b>\$31,312,958</b>	<b>\$216,001,846</b>	<b>\$54,515,548</b>	<b>\$37,064,916</b>	<b>\$122,311,505</b>

8 - Fall River Durfee BMC HS - The Maximum Facilities Grant reflects the recovery of \$671,665.  
 9 - Belmont HS - The Maximum Facilities Grant reflects the recovery of \$47,227.  
 10 - Arlington HS - The Maximum Facilities Grant reflects the recovery of \$32,184.  
 11 - Wahconah Regional HS - The Maximum Facilities Grant reflects the recovery of \$1,431.  
 12 - Lowell HS - The Maximum Facilities Grant reflects the recovery of \$9,440.  
 13 - Sharon HS - The Maximum Facilities Grant reflects the recovery of \$692,543

14 - Nauset Regional HS - The Maximum Facilities Grant reflects the recovery of -\$388,439.  
 15 - Waltham HS - The Maximum Facilities Grant reflects the recovery of \$9,234.  
 16 - Worcester Doherty HS - The Maximum Facilities Grant reflects the recovery of -\$45,875.

Information as of:

August 2020  
Board Meeting

Estimated Construction & Total Project Cost Data at Schematic Design [ON OR AFTER JANUARY 1, 2014]  
High Schools

The information and data contained in this spreadsheet, for construction projects starting January 2014, is based on the MSBA's review of construction cost estimates, contracts and other documentation provided by cities, towns, and regional school districts. This information and data is intended for informational purposes only. The data may have changed based on actual construction bids or contract amendments, for example, and the MSBA shall have no responsibility or duty to update any of the information contained in this spreadsheet. Please contact the Districts for the most current information. The MSBA hereby disclaims any and all liability and responsibility that may arise in connection with the information contained in this spreadsheet. This spreadsheet may include a preliminary review of scope exclusions but all costs identified are subject to review and audit by the MSBA and may not be eligible for reimbursement by the MSBA.

Date Board Approved		Aug-20				
District		Worcester <sup>16</sup>				
School Name		Doherty Memorial HS				
Construction Type		New				
Enrollment		1,670				
GSF		421,858				
Assumed Start of Construction		Jun-21				
OPM		Tishman				
Designer		Lamoureux Pagano Associates				
Cost Estimator		A.M. Fogarty				
				<b>TOTAL</b>		
				<b>ALL</b>		
				<b>HIGH</b>		
				<b>HIGH</b>		
				<b>SCHOOLS</b>		
Division #	Description of Work					
A	Substructure		\$10,411,315		\$151,965,483	
B	Shell		\$42,776,922		\$704,430,858	
	B10	Superstructure	\$17,422,452		\$276,290,077	
	B20	Exterior Enclosure	\$20,768,534		\$334,323,281	
	B2010	Exterior Walls	\$13,885,789		\$216,909,390	
	B2020	Exterior Windows	\$6,674,954		\$100,270,441	
	B2030	Exterior Doors	\$207,791		\$5,144,822	
	B30	Roofing	\$4,585,936		\$93,817,500	
C	Interiors		\$31,840,046		\$486,437,299	
D	Services		\$50,420,771		\$835,512,919	
	D10	Conveying	\$598,000		\$10,486,517	
	D20	Plumbing	\$7,500,591		\$115,036,027	
	D30	HVAC	\$21,007,499		\$363,217,352	
	D40	Fire Protection	\$2,323,250		\$40,793,023	
	D50	Electrical Utilities	\$18,991,431		\$305,980,000	
E	Furnishings & Fixed Equipment		\$8,386,082		\$128,660,172	
	Building Value Engineering				\$0	
	<b>Building Subtotal</b>		<b>\$143,835,136</b>		<b>\$2,307,006,731</b>	
F	Special Construction & Demo		\$11,749,798		\$136,741,954	
G	Other Site Construction		\$20,378,558		\$309,984,213	
	G10	Site Preparation	\$8,003,706		\$105,929,986	
	G20	Site Improvements	\$7,900,598		\$143,317,253	
	G30	Mechanical Utilities	\$2,996,106		\$39,080,018	
	G40	Electrical Utilities	\$1,478,148		\$21,656,956	
	Other Site Construction		\$1,532,526		\$34,697,930	
	<b>Subtotal</b>		<b>\$177,496,018</b>		<b>\$2,788,430,828</b>	
Z	Mark-Ups		\$52,365,025		\$770,478,130	
Z	Insurance		\$3,095,503		\$60,268,243	
Z	Subcontractor Bond		\$1,949,020		\$23,834,947	
Z	Design & Pricing Contingency		\$17,749,602		\$267,283,792	
Z	General Conditions		\$8,225,000		\$222,681,954	
Z	Overhead & Profit / GMP Fee		\$15,488,531		\$123,228,554	
Z	GMP Contingency		\$5,857,369		\$73,180,640	
	<b>Construction Subtotal</b>		<b>\$229,861,043</b>		<b>\$3,558,908,958</b>	
	Project Scope Adjustments				\$26,615,232	
Z	Escalation to Construction Mid-Point		\$9,049,633		\$175,287,589	
	<b>Total Construction Cost</b>		<b>\$238,910,676</b>		<b>\$3,760,811,779</b>	
	<b>Cost per Square Foot</b>		<b>\$566</b>			
Bid Alternates					\$16,542,456	
CM Pre-Construction Services				\$700,000	\$8,432,780	
Construction Contingency				\$8,225,725	\$172,696,572	
Designer				\$21,196,550	\$392,398,694	
OPM & other Professional services				\$5,387,595	\$135,110,716	
FF&E/IT				\$7,014,000	\$120,662,287	
Legal Fees				\$0	\$1,061,000	
Other Soft Costs				\$982,000	\$40,262,494	
Owner's Contingency				\$10,967,632	\$50,084,744	
<b>Total Project Budget ***</b>				<b>\$293,384,178</b>	<b>\$4,698,063,522</b>	
Bid Alternates					\$11,997,495	
Ineligible Costs & Contingency				\$5,836,618	\$123,005,991	
Scope Exclusions				\$118,438,936	\$1,307,097,023	
<b>Basis for Total Facilities Grant</b>				<b>\$169,108,624</b>	<b>\$3,255,963,013</b>	
<b>Reimbursement Rate</b>				<b>80.00%</b>		
<b>Maximum Facilities Grant</b>				<b>\$135,286,899</b>	<b>\$2,062,036,890</b>	